APPENDIX E
FIELD SURVEY RESULTS

To support RBTI, an interrelated system of ground-based and airspace assets would be developed. The ground-based assets would include an Electronic Scoring Site (ESS) system composed of five MTR and five MOA emitter sites, as well as one MTR and one en route Electronic Scoring Site—all twelve sites would be 15 acres in size. Depending on the action alternative chosen, sites would be located in western Texas or northeastern New Mexico.

The Air Force identified a total of 42 candidate sites for these ground-based assets. Field investigations by professional scientists were conducted at each of the 15-acre sites for hazardous wastes and contamination; wetlands and threatened and endangered species; and archaeological resources. The following table outlines the results of these investigations and the field methods are described below.

Section 4.3 (Biological Resources) and Section 4.5 (Cultural Resources), in the RBTI final EIS, discuss each of the sites and the potential for impacts. Appendix H (Biological Resources Support Documentation) provides an index to the species identified in the RBTI EIS as well as the state and federal threatened, endangered, and sensitive species found in the RBTI study area. Section 2.5.4 discusses the results of the Environmental Baseline Survey.

Environmental Baseline Survey

Site assessments were generated by conducting a visual inspection of the candidate sites, interviewing available landowners, and reviewing all available data on potential contamination sources. Documents reviewed consisted of environmental databases from federal and state regulatory agencies, aerial photographs, historic maps, site plans, floor plans, and chain-of-title information.

Biology

A background literature review was conducted prior to the site visits. Pertinent soil surveys of each county (dates ranging from 1973 to 1994), topographic maps, and National Wetland Inventory maps (dates ranging from 1987 to 1994) were used to identify potential jurisdictional wetlands, non-jurisdictional wetlands, and "Waters of the United States." Sensitive species of concern were also identified by state and federal agencies. The following agencies were contacted regarding sensitive species that could potentially be affected by the RBTI project.

The US Fish and Wildlife Service in Albuquerque, NM.

The US Fish and Wildlife Service in Austin, TX

The US Fish and Wildlife Service in Arlington, TX.

Texas Parks and Wildlife Department, Texas Biological and Conservation Data System.

Internet data from the US Fish and Wildlife Service, Texas Parks and Wildlife Department, New Mexico Department of Game and Fish, and The New Mexico Natural Heritage Program.

Each of the 42 candidate emitter and electronic scoring sites were visited by biologists: the Texas surveys were conducted 20-28 April 1998 and the New Mexico surveys were conducted 11-18 May 1998. Field visits were also conducted 10-11 September 1998 in order to survey additional sites in Texas that were added to the program at that time. Dominant plant species were identified and vegetation cover was determined, wildlife observations were recorded, and potential habitat for threatened and endangered species, and other species of concern, were noted when present. Site data forms were used to record wetland indicators, or lack of the indicators, and species observed. Scaled maps were drawn and photographs were taken.

Cultural Resources

All 42 candidate sites, 22 sites in western Texas and 20 sites in northeastern New Mexico, were intensively and systematically surveyed for cultural resources. Prior to fieldwork, a records search was conducted for all emitter and electronic emitter site locations in Texas through the Texas Archaeological Research Laboratory (TARL) and in New Mexico through the Archaeological Records Management Section (ARMS) of the New Mexico Historic Preservation Division. The goal was to identify all previously recorded prehistoric and historic resources within one mile of each site.

Fieldwork involved an intensive pedestrian survey of each of the forty-two 15-acre parcels in Texas and New Mexico. Archaeologists surveyed each parcel in a north-south direction using transect intervals spaced 25 meters apart or less. The specific transect interval at a candidate emitter and electronic scoring site depended on the field conditions, terrain, and surface visibility. Once an artifact was encountered, transects were reduced to three meters or less. In general, surface visibility was very good and the transect interval was close enough to identify any potentially significant cultural resources.

All archaeological resources were recorded and characteristics of the site were noted on quadrat summary forms. For prehistoric and historic sites identified at the Texas locations, State of Texas Archaeological Site Data Forms were filled out. For sites found in New Mexico, the Laboratory of Anthropology Site Record was completed, photographs of archaeological sites were taken, and artifacts were drawn to scale. Isolated finds were documented in field notes; neither Texas nor New Mexico require a specific isolate form. No architectural resources over 50 years old were identified on any of the candidate sites in either Texas or New Mexico.

Table E-1. Field Survey Results

Site Type	*Candidate Sites*	*Alternative*	*County*	*State*	*Current Land Use*	*EBS Concerns*	*Biological Concerns*	*Cultural Concerns*
MTR emitter	2	D	Guadalupe	NM	Grazing	None	None	1 prehistoric isolate
MTR emitter	6	D	Guadalupe	NM	Grazing	None	None	none, but potential for buried sites is high
MTR emitter	7	D	Guadalupe	NM	Grazing	None	None	1 lithic scatter
MTR emitter	24	D	Guadalupe	NM	Grazing	None	None	None
MTR emitter	37	D	Guadalupe	NM	Grazing	None	None	2 prehistoric isolates
MTR emitter	38	D	Mora	NM	Grazing	None	None	1 lithic scatter on perimeter
MTR emitter	39	D	Guadalupe	NM	Grazing	None	None	1 lithic scatter
MTR emitter	40	D	Mora	NM	Grazing	None	None	None
MTR emitter	41	D	Mora	NM	Grazing	None	None	None
MTR emitter	54	B/C	Brewster	TX	Grazing	None	None	1 prehistoric isolate
MTR emitter	55	B/C	Presidio	TX	Grazing	None	None	None
MTR emitter	81	B/C	Brewster	TX	Grazing	None	None	6 prehistoric isolates
MTR emitter	82	B/C	Pecos	TX	Agriculture	None	None	None
MTR emitter	91	B/C	Pecos	TX	Grazing	None	None	None
MTR emitter	93	B/C	Pecos	TX	Grazing	None	None	None
MOA emitter	14	D	Harding	NM	Grazing: 1/5 of land set aside for CRP	None	None	None
MOA emitter	15	D	Colfax	NM	Grazing	None	None	None
MOA emitter	16	D	Colfax	NM	Grazing	None	None	None
MOA emitter	17	D	Union	NM	Grazing	None	None	None
MOA emitter	20	D	Union	NM	Grazing	None	None	None
MOA emitter	21	D	Union	NM	Grazing	None	None	None
MOA emitter	35	D	Harding	NM	Grazing	None	None	None
MOA emitter	36	D	Harding	NM	Grazing	None	None	None
MOA emitter	64	B	Scurry	TX	CRP entirely	None	None	2 prehistoric isolates
MOA emitter	65	B	Borden	TX	CRP entirely	Petroleum pump/AST	None	None
MOA emitter	66	B	Borden	TX	Grazing	None	None	None
MOA emitter	67	B	Borden	TX	Grazing	None	None	None
MOA emitter	72	B	Garza	TX	Grazing	None	None	1 prehistoric isolate
MOA emitter	80	C	Upton	TX	Grazing	None	None	None

AST: Above Ground Storage Tank
CRP: Conservation Reserve Program
PCB: Polychlorinated Biphenyls

Table E-1. Field Survey Results (continued)

Site Type	*Candidate Sites*	*Alternative*	*County*	*State*	*Current Land Use*	*EBS Concerns*	*Biological Concerns*	*Cultural Concerns*
MOA emitter	78	C	Upton	TX	Grazing	None	None	None
MOA emitter	79	C	Schleicher	TX	Grazing	ASTs, tanks	None	None
MOA emitter	88	C	Regan	TX	Grazing	None	None	None
MOA emitter	89	C	Regan	TX	Grazing	None	None	None
MOA emitter	94	C	Irion	TX	Grazing	None	None	2 prehistoric isolates, 1 historic dump site
MOA emitter	95	B	Scurry	TX	Agriculture	None	None	None
En Route Electronic Scoring Site	61	B/C/D	Taylor	TX	Existing AF unused facility	Lead paint	None	1 prehistoric site
En Route Electronic Scoring Site	62	B/C/D	Taylor	TX	Existing AF unused facility	Lead paint	None	1 prehistoric isolate
MTR Electronic Scoring Site	28	D	Harding	NM	CRP entirely	None	None	None
MTR Electronic Scoring Site	33	D	Union	NM	Grazing	None	None	None
MTR Electronic Scoring Site	34	D	Quay	NM	Grazing	None	None	1 historic homestead site
MTR Electronic Scoring Site	59	B/C	Reeves	TX	Grazing	None	None	None
MTR Electronic Scoring Site	60	B/C	Reeves	TX	Fallow field	ASTs	None	None

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